

Physical Chemistry Schedule (CSIR-NET Dec 2024/GATE 2025 Fluorine Batch)

DATE	DAY	CHAPTER	CLASSES	TOPICS	DURATION
15-Jan-24	Monday	GPC	Class 1	1. Introduction to units 2. Mole Concept	57
16-Jan-24	Tuesday	GPC	Class 2	1. Mole concept in solution	57
17-Jan-24	Wednesday	GPC	Assignment and solution	15 questions	70
18-Jan-24	Thursday	GPC	Miscellaneous Assignment and Solution		
19-Jan-24	Friday	Chemical Kinetics	Class 1	1. Various graphs(hyperbolic, prabolic, exponential and straight line)	52
20-Jan-24	Saturday	Chemical Kinetics	Class 2	1. Law of mass action 2. Order of reaction	60
21-Jan-24	Sunday	Holiday			
22-Jan-24	Monday	Chemical Kinetics	Assignment 1 and solution	9 questions	22
23-Jan-24	Tuesday	Chemical Kinetics	Class 3	1. Rate law 2. Rate law expression 3. Zero order	60
24-Jan-24	Wednesday	Chemical Kinetics	Assignment 2 and solution	20 questions	38
25-Jan-24	Thursday	Chemical Kinetics	Class 4	1. Graph for zero order 2. First order 3. Pseudo first order 4. General Equation	73
26-Jan-24	Friday	Holiday	Republic Day		
27-Jan-24	Saturday	Chemical Kinetics	Assignment 3 and solution	71 questions	
28-Jan-24	Sunday	Holiday			
29-Jan-24	Monday	Chemical Kinetics	Class 5	1. Arrhenius Equation 2. Maxwell Curve	48
30-Jan-24	Tuesday	Chemical Kinetics	Assignment 4 and solution	13 questions	38
31-Jan-24	Wednesday	Chemical Kinetics	Class 6	1. Activation Energy 2. Endothermic and Exothermic reactions 3. Catalyst	53
01-Feb-24	Thursday	Chemical Kinetics	Class 7	1. Reversible reactions 2. Parallel Reactions	69
02-Feb-24	Friday	Chemical Kinetics	Assignment 5 and solution	19 questions	40
03-Feb-24	Saturday	Chemical Kinetics	Class 8	1. Consecutive Reactions 2. Complex Reactions 3. SSA	64

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04-Feb-24	Sunday	Holiday			
05-Feb-24	Monday	Chemical Kinetics	Class 9	1. Lindemann Theory	17
06-Feb-24	Tuesday	Chemical Kinetics	Assignment 6 and solution	19 questions	46
07-Feb-24	Wednesday	Chemical Kinetics	Class 10	1. Activated Complex Theory 2. Collision theory	90
08-Feb-24	Thursday	Chemical Kinetics	Assignment 7 and solution	14 questions	40
09-Feb-24	Friday	Chemical Kinetics	Class 11	1. Michaelis Menten Equation 2. Plots of enzyme catalysis	39
10-Feb-24	Saturday	Chemical Kinetics	Assignment 8 and solution	9 questions	40
11-Feb-24	Sunday	Holiday			
12-Feb-24	Monday	Chemical Kinetics	Class 12	1. Catalytic efficiency 2. Quantum Efficiency 3. Photochemistry	40
13-Feb-24	Tuesday	Chemical Kinetics	Class 13	1. Jablonski Diagram	30
14-Feb-24	Wednesday	Chemical Kinetics	Assignment 9 and solution	24 questions	55
15-Feb-24	Thursday	Chemical Kinetics	Assignment 10 and solution	14 questions	60
16-Feb-24	Friday	Chemical Kinetics	Assignment 11 and solution	12 questions	40
17-Feb-24	Saturday	Chemical Kinetics	Exam Dose		
18-Feb-24	Sunday	Holiday			
19-Feb-24	Monday	Chemical Kinetics	Miscellaneous Assignment and Solution Chemical Kinetics Test on Wednesday		
20-Feb-24	Tuesday	Chemical Kinetics	Revise Chemical Kinetics		
21-Feb-24	Wednesday	Chemical Kinetics	Class Test and Solution	10 questions	27
22-Feb-24	Thursday	Surface Chemistry	Class 1(1)	1. Physical adsorption 2. Chemical adsorption 3. Factors affecting adsorption	44
			Class 1(2)	1. Thermodynamics of adsorption 2. Desorption activation energy	39
23-Feb-24	Friday	Surface Chemistry	Class 2(1)	1. Total surface area of adsorbent 2. Langmuir theory	46

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			Class 2(2)	1. Langmuir Isotherm 2. Dissociative adsorption	35
24-Feb-24	Saturday	Surface Chemistry	Class 3	1. Freundlich theory 2. BET	48
25-Feb-24	Sunday	Holiday			
26-Feb-24	Monday	Surface Chemistry	Assignment 1 and solution	30 questions	35
27-Feb-24	Tuesday	Surface Chemistry	Assignment 2 and solution	15 questions	66
28-Feb-24	Wednesday	Surface Chemistry	Assignment 3 and solution	8 questions	23
29-Feb-24	Thursday	Surface Chemistry	Exam dose		
01-Mar-24	Friday	Surface Chemistry	Miscellaneous Assignment and Solution		
02-Mar-24	Saturday	Polymer Chemistry	Class 1(1)	1. Introduction and classification 2. Number average molar mass	46
			Class 1(2)	1. Mw, Mz and Mv	27
03-Mar-24	Sunday	Holiday			
04-Mar-24	Monday	Polymer Chemistry	Class 2	1. Polydispersity index 2. Degree of Polymerisation 3. Flory-Schulz Distribution	33
05-Mar-24	Tuesday	Polymer Chemistry	Numerical approach and solution	8 questions	22
06-Mar-24	Wednesday	Polymer Chemistry	Assignment 1 and solution	21 questions	26
07-Mar-24	Thursday	Polymer Chemistry	Assignment 2 and solution	7 questions	15
08-Mar-24	Friday	Holiday	Republic Day		
09-Mar-24	Saturday	Polymer Chemistry	Exam dose		
10-Mar-24	Sunday	Holiday			
11-Mar-24	Monday	Polymer Chemistry	Miscellaneous Assignment and Solution Surface+ Polymer+ GPC Test on Wednesday		
12-Mar-24	Tuesday	Surface+ Polymer+ GPC	Revise Surface+ Polymer+ GPC		
13-Mar-24	Wednesday	Surface+ Polymer+ GPC	Surface+ Polymer+ GPC Test and Solution	15 questions	46

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14-Mar-24	Thursday	Chemical Kinetics	Revise Chemical Kinetics		
15-Mar-24	Friday	Group Theory	Class 1	1.Introduction to symmetry and symmetry elements	50
16-Mar-24	Saturday	Group Theory	Class 2(1)	1. Axis of symmetry 2. Plane of symmetry	46
17-Mar-24	Sunday	Holiday			
18-Mar-24	Monday	Group Theory	Class 2(2)	1. inversion centre 2. Improper Axis	36
19-Mar-24	Tuesday	Group Theory	Assignment 1 and solution	15 questions	27
20-Mar-24	Wednesday	Group Theory	Class 3	1. Point Groups and examples	54
21-Mar-24	Thursday	Group Theory	Class 4	1.Examples of point groups	36
22-Mar-24	Friday	Group Theory	Class 5(1)	1. Examples of point groups	55
23-Mar-24	Saturday	Group Theory	Class 5(2)	1. Examples of point groups	51
24-Mar-24	Sunday	Holiday			
25-Mar-24	Monday	Holiday	Holi		
26-Mar-24	Tuesday	Group Theory	Class 6(1)	1. Multiplication of symmetry elements 2. Group Multiplication Table 3. Order of point group	55
27-Mar-24	Wednesday	Group Theory	Class 6(2)	1. Order of point group 2. Improper axis of rotation	47
28-Mar-24	Thursday	Group Theory	Class 7(1)	1. Matrix Representation 2. Representaion of group	61
29-Mar-24	Friday	Holiday	Good Friday		
30-Mar-24	Saturday	Group Theory	Class 7(2)	1.Reducible representation	36
31-Mar-24	Sunday	Holiday			
01-Apr-24	Monday	Group Theory	Class 8	1. Character Table 2. GOT 3. Mulliken symbol	65
02-Apr-24	Tuesday	Group Theory	Class 9	1. Reduction of reducible representation 2. Applications of group theory	48
03-Apr-24	Wednesday	Group Theory	Assignment 2 and solution	61 questions	

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04-Apr-24	Thursday	Group Theory	Assignment 3 and solution	17 questions	62
05-Apr-24	Friday	Group Theory	Assignment 4 and solution	5 questions	29
06-Apr-24	Saturday	Group Theory	Exam dose		
07-Apr-24	Sunday	Holiday			
08-Apr-24	Monday	Group Theory	Miscellaneous Assignment and Solution Group Theory Test on Wednesday		
09-Apr-24	Tuesday	Group Theory	Revise Group Theory		
10-Apr-24	Wednesday	Group Theory	Class Test and Solution	10 questions	49
11-Apr-24	Thursday	Holiday	Ramadan Eid		
12-Apr-24	Friday	Surface+ Polymer+ GPC	Revise Surface+ Polymer+ GPC		
13-Apr-24	Saturday	Electrochemistry	Class 1	1. Introduction to cells, conductance and electrolytes	21
14-Apr-24	Sunday	Holiday			
15-Apr-24	Monday	Electrochemistry	Class 2(1)	1. Ohm's law 2. Molar conductance 3. Equivalent conductance 3. Variation with dilution	71
16-Apr-24	Tuesday	Electrochemistry	Class 2(2)	1.Ostwald dilution law 2. Debye-Huckel-Onsager theory	46
17-Apr-24	Wednesday	Holiday	Shri Rama Navmi		
18-Apr-24	Thursday	Electrochemistry	Class 3(1)	1. Kohlrausch's law 2. Factors affecting ionic conductivity 3. Grotthus conductance	56
19-Apr-24	Friday	Electrochemistry	Class 3(2)	1. Transport number 2. Ionic mobility 3. Conductometric titrations	69
20-Apr-24	Saturday	Electrochemistry	Assignment 1 and solution	17 questions	
21-Apr-24	Sunday	Holiday			
22-Apr-24	Monday	Electrochemistry	Class 4(1)	1. Galvanic cell 2. Types of electrodes	53
23-Apr-24	Tuesday	Electrochemistry	Class 4(2)	1. Cell notation 2. Electrochemical potential 3. Electrochemical series	72

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24-Apr-24	Wednesday	Electrochemistry	Class 5(1)	1. Nernst equation 2. Applications of cell potential	62
25-Apr-24	Thursday	Electrochemistry	Class 5(2)	1. Applications of cell potential	27
26-Apr-24	Friday	Electrochemistry	Assignment 2 and solution	22 questions	51
27-Apr-24	Saturday	Electrochemistry	Class 6(1)	1. Concentration cells 2. Liquid junction potential	67
28-Apr-24	Sunday	Holiday			
29-Apr-24	Monday	Electrochemistry	Class 6(2)	1. Composite cell 2. Spectrophotometric and potentiometric titration 3. Polarography	54
30-Apr-24	Tuesday	Electrochemistry	Assignment 3 and solution	23 questions	42
01-May-24	Wednesday	Holiday	Maharashtra Day		
02-May-24	Thursday	Electrochemistry	Assignment 4 and solution	17 questions	57
03-May-24	Friday	Electrochemistry	Class 7(1)	1. Activity 2. Salt effect 3. Debye Huckel limiting law 4. Ionic strength	46
04-May-24	Saturday	Electrochemistry	Class 7(2)	1. Kinetics of primary salt effect	25
05-May-24	Sunday	Holiday			
06-May-24	Monday	Electrochemistry	Assignment 5 and solution	20 questions	40
07-May-24	Tuesday	Electrochemistry	Assignment 6 and solution	34 questions	70
08-May-24	Wednesday	Electrochemistry	Assignment 7 and solution	9 questions	30
09-May-24	Thursday	Electrochemistry	Exam date		
10-May-24	Friday	Electrochemistry	Miscellaneous Assignment and Solution Electrochemistry Test on Monday		
11-May-24	Saturday	Electrochemistry	Revise Electrochemistry		
12-May-24	Sunday	Holiday			
13-May-24	Monday	Electrochemistry	Class Test and Solution	12 questions	24

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14-May-24	Tuesday	Group Theory	Revise Group Theory		
15-May-24	Wednesday	Phase equilibrium	Class 1(1)	1. Introduction 2. Components 3. Gibbs Phase rule	63
16-May-24	Thursday	Phase equilibrium	Class 1(2)	1. Clausius Clapeyron equation 2. One -component System	51
17-May-24	Friday	Phase equilibrium	Assignment 1 and solution	38 questions	43
18-May-24	Saturday	Phase equilibrium	Class 2	1. Phase diagram of sulphur	22
19-May-24	Sunday	Holiday			
20-May-24	Monday	Phase equilibrium	Class 3	1. Two-component system 2. Classification of phase transition	104
21-May-24	Tuesday	Phase equilibrium	Assignment 2 and solution	6 questions	13
22-May-24	Wednesday	Phase equilibrium	Assignment 3 and solution	3 questions	10
23-May-24	Thursday	Phase equilibrium	Miscellaneous Assignment and Solution		
24-May-24	Friday	Solid State	Class 1	1. Type of unit cells 2. Number of lattice points	104
25-May-24	Saturday	Solid State	Class 2(1)	1. 2-D representation 2. Relationship between d, a and r	66
26-May-24	Sunday	Holiday			
27-May-24	Monday	Solid State	Class 2(2)	1. Packing fraction 2. Density	36
28-May-24	Tuesday	Solid State	Assignment 1 and solution	50 questions	42
29-May-24	Wednesday	Solid State	Class 3	1. Structures of ionic solids	62
30-May-24	Thursday	Solid State	Class 4	1. Law of rational indices 2. Miller indices	76
31-May-24	Friday	Solid State	Class 5(1)	1. Planes and miller indices 2. Interplanar distance 3. Bragg's equation	59
01-Jun-24	Saturday	Solid State	Class 5(2)	1. Selection rule for allowed reflection 2. Defects 3. Structure factor	56
02-Jun-24	Sunday	Holiday			
03-Jun-24	Monday	Solid State	Class 5(3)	1. Semiconductor 2. Band theory 3. Fermi levels	54

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04-Jun-24	Tuesday	Solid State	Assignment 2 and solution	50 questions	59
05-Jun-24	Wednesday	Solid State	Assignment 3 and solution	15 questions	39
06-Jun-24	Thursday	Solid State	Assignment 4 and solution	6 questions	31
07-Jun-24	Friday	Solid State	Miscellaneous Assignment and Solution Solid State + Phase Equilibrium Test on Monday		
08-Jun-24	Saturday	Solid State + Phase Equilibrium	Revise Solid State + Phase Equilibrium		
09-Jun-24	Sunday	Holiday			
10-Jun-24	Monday	Solid State + Phase Equilibrium	Class Test and Solution	12 questions	14
11-Jun-24	Tuesday	Electrochemistry	Revise Electrochemistry		
12-Jun-24	Wednesday	Chemical Thermodynamics	Class 1(1) Class 1(2)	1. Unit conversion 2. Euler's Reciprocity rule 1. Total differential 2. Cyclic rule	53 29
13-Jun-24	Thursday	Chemical Thermodynamics	Class 2	1. State functions 2. Path functions 3. Equations of states 4. Maxwell equations and relations	66
14-Jun-24	Friday	Chemical Thermodynamics	Class 3	1.Examples based on previous topics	57
15-Jun-24	Saturday	Chemical Thermodynamics	Class 4	1.Different types of processes 2. Laws of thermodynamics	70
16-Jun-24	Sunday	Holiday			
17-Jun-24	Monday	Holiday	Bakri Id		
18-Jun-24	Tuesday	Chemical Thermodynamics	Class 5(1) Class 5(2) Class 5(3)	1. Heat capacity 2. Expansion coefficient and compressibility factor 3. Joule's experiment 1. Joule Thomson experiment and coefficient 2. Examples 1. Equipartition theorem 2. Examples and previous year questions	55 56 56
19-Jun-24	Wednesday	Chemical Thermodynamics	Class 6(1) Class 6(2)	1.Reversible and irreversible process 2. Work done in various processes 1. Comparsion between isothermal and adiabatic process 2. KirchOff (Revise)'s equation	62 59
20-Jun-24	Thursday	Chemical Thermodynamics	Class 7(1) Class 7(2)	1. Examples and previous year questions 2. Carnot cycle/engine 1. Carnot cycle 2. Efficiency of Carnot engine 3. Plots of carnot cycle	57 57
21-Jun-24	Friday	Chemical Thermodynamics	Class 8(1)	1.Limitations of first law of thermodynamics 2. Second law of thermodynamics 3. Entropy	59

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			Class 8(2)	1.Entropy change 2. Clausius inequality equation 3. Criteria of spontaneity	35
22-Jun-24	Saturday	Chemical Thermodynamics	Class 9	1.Calculation of Entropy change 2. Trouton's law 3. Entropy and free energy of mixing 4. Third law of thermodynamics	62
23-Jun-24	Sunday	Holiday			
24-Jun-24	Monday	Chemical Thermodynamics	Class 10(1) Class 10(2)	1. Variation of Gibb's free energy 2. Concept of fugacity 1. Fugacity	58 17
25-Jun-24	Tuesday	Chemical Thermodynamics	Assignment 1 and solution	30 questions	39
26-Jun-24	Wednesday	Chemical Thermodynamics	Class 11	1. Partial molar quantities	40
27-Jun-24	Thursday	Chemical Thermodynamics	Assignment 2 and solution	37 questions	104
28-Jun-24	Friday	Chemical Thermodynamics	Assignment 3 and solution	4 questions	20
29-Jun-24	Saturday	Chemical Thermodynamics	Assignment 4 and solution	11 questions	33
30-Jun-24	Sunday	Holiday			
01-Jul-24	Monday	Chemical Thermodynamics	Exam dose		
02-Jul-24	Tuesday	Chemical Thermodynamics	Miscellaneous Assignment and Solution		
03-Jul-24	Wednesday	Quantum	Class 1(1)	1. Revision of trigonometry and differentiation	55
04-Jul-24	Thursday	Quantum	Class 1(2)	1. Revision of integration	49
05-Jul-24	Friday	Quantum	Class 2(1)	1. Operators 2. Properties of operators 3. Function	58
06-Jul-24	Saturday	Quantum	Class 2(2)	1. Expression of operators	55
07-Jul-24	Sunday	Holiday			
08-Jul-24	Monday	Quantum	Class 3(1)	1. Commutation 2. Momentum and position commutation and examples	56
09-Jul-24	Tuesday	Quantum	Class 3(2)	1. Properties of commutators 2. Previous year questions	58
10-Jul-24	Wednesday	Quantum	Class 4	1. Eigen value and eigen function 2. Properties 3. Previous year questions	61

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11-Jul-24	Thursday	Quantum	Class 5	1. De-Broglie wavelength 2. Postulates	64
12-Jul-24	Friday	Quantum	Class 6(1)	1. Normalisation and Orthogonality 2. Examples and previous year questions	77
13-Jul-24	Saturday	Quantum	Class 6(2)	1. Schrodinger wave equation 2. Particle in a 1-D box	77
14-Jul-24	Sunday	Holiday			
15-Jul-24	Monday	Quantum	Class 7(1)	1. Wave function plot for 1-D box 2. 2-D box 3. 3-D box 4. Degeneracy	65
16-Jul-24	Tuesday	Quantum	Class 7(2)	1. Degeneracy 2. Probability and average values of position and momentum in 1-D box	76
17-Jul-24	Wednesday	Holiday	Moharram		
18-Jul-24	Thursday	Quantum	Class 8(1)	1. Examples of 1-D, 2-D and 3-D box 2. SHO	59
19-Jul-24	Friday	Quantum	Class 8(2)	1. SHO 2. 2-D and 3-D SHO	59
20-Jul-24	Saturday	Quantum	Assignment 1 and solution	39 questions	60
21-Jul-24	Sunday	Holiday			
22-Jul-24	Monday	Quantum	Class 9(1)	1. Wave functions of SHO 2. Wave function plots 3. Average value	60
23-Jul-24	Tuesday	Quantum	Class 9(2)	1. Rigid Rotor 2. Quantisation of Rotational motion	50
24-Jul-24	Wednesday	Quantum	Class 10	1. Hermitian operator 2. Hermitian adjoint and dagger 4. Properties of dagger	58
25-Jul-24	Thursday	Quantum	Class 11	1. Raising and lowering operator and examples	49
26-Jul-24	Friday	Quantum	Class 12	1. Hydrogen atom 2. Radial wave functions	56
27-Jul-24	Saturday	Quantum	Class 13(1)	1. Radial nodes 2. Radial plots 3. Radial distribution function plots	55
28-Jul-24	Sunday	Holiday			
29-Jul-24	Monday	Quantum	Class 13(2)	1. Most probable radius 2. Radial distribution function curve of various H-orbitals	45
30-Jul-24	Tuesday	Quantum	Class 14(1)	1. Determination of n and l values	22
31-Jul-24	Wednesday	Quantum	Class 14(2)	1. Angular part of H-atom 2. Complete wave function	62

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01-Aug-24	Thursday	Quantum	Class 15	1.Spherical harmonics for s,p and d orbitals	69
02-Aug-24	Friday	Quantum	Class 16	1.n,l and m values 2. Significance of quantum numbers 3. Virial theorem	75
03-Aug-24	Saturday	Quantum	Assignment 2 and solution	24 questions	46
04-Aug-24	Sunday	Holiday			
05-Aug-24	Monday	Quantum	Class 17	1. Superposition principle 2. Observable eigen value and examples	80
06-Aug-24	Tuesday	Quantum	Class 18(1)	1.First order perturbation and examples	66
07-Aug-24	Wednesday	Quantum	Class 18(2)	1. Examples on first order perturbation 2. Dirac delta function	28
08-Aug-24	Thursday	Quantum	Class 19(1)	1. Examples on first order correction 2. Dirac BRA-KET notation	62
09-Aug-24	Friday	Quantum	Class 19(2)	1.Second order correction 2. Examples	34
10-Aug-24	Saturday	Quantum	Class 20	1.Variational method 2. Percentage error in energy of trial wave functions	56
11-Aug-24	Sunday	Holiday			
12-Aug-24	Monday	Quantum	Class 21	1.Variational parameters 2. Linear variational principle 3. Energy calculations	51
13-Aug-24	Tuesday	Quantum	Assignment 3 and solution	15 questions	20
14-Aug-24	Wednesday	Quantum	Class 22	1. Linear variational principle 2. examples	74
15-Aug-24	Thursday	Holiday	Independence Day		
16-Aug-24	Friday	Quantum	Class 23	1. Huckel molecular orbital theory 2. Energy determination	90
17-Aug-24	Saturday	Quantum	Class 24	1.HMOT treatment of various systems	66
18-Aug-24	Sunday	Holiday			
19-Aug-24	Monday	Quantum	Class 25	1. Wavefunction determination(HMOT) 2. Extended HMOT	90
20-Aug-24	Tuesday	Quantum	Class 26	1.MOT 2. VBT	78
21-Aug-24	Wednesday	Quantum	Class 27	1.Introduction to spin 2. Spin part symmetry 3. Slater determinant	82

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22-Aug-24	Thursday	Quantum	Assignment 4 and solution	25 questions	36
23-Aug-24	Friday	Quantum	Miscellaneous Assignment 1 and solution	39 questions	112
24-Aug-24	Saturday	Quantum	Miscellaneous Assignment 2 and solution	16 questions	79
25-Aug-24	Sunday	Holiday			
26-Aug-24	Monday	Quantum	Miscellaneous Assignment 3 and solution	11 questions	39
27-Aug-24	Tuesday	Quantum	Miscellaneous Assignment 4 and solution	7 questions	21
28-Aug-24	Wednesday	Quantum	Exam dose		
29-Aug-24	Thursday	Quantum	Miscellaneous Assignment and Solution Quantum Test on Saturday		
30-Aug-24	Friday	Quantum	Revise Quantum Chemistry		
31-Aug-24	Saturday	Quantum	Class Test and Solution	15 questions	48
01-Sep-24	Sunday	Holiday			
02-Sep-24	Monday	Solid State + Phase Equilibrium	Revise Solid State + Phase Equilibrium		
03-Sep-24	Tuesday	Physical spectroscopy	Rotational class 1	1. Rotational energy levels 2. Types of molecules	56
04-Sep-24	Wednesday	Physical spectroscopy	Rotational class 2	1. Selection rule 2. Energy gap 3. Intensity of spectral lines	58
05-Sep-24	Thursday	Physical spectroscopy	Rotational class 3	1. Boltzmann's distribution formula 2. Effect of isotopic substitution 3. Non-rigid rotor	58
06-Sep-24	Friday	Physical spectroscopy	Vibrational Class 1	1. Energy 2. Selection rule 3. Anharmonic oscillator 4. Transitions	64
07-Sep-24	Saturday	Physical spectroscopy	Vibrational Class 2	1. Vibrating rotor 2. P,Q,R lines	42
08-Sep-24	Sunday	Holiday			
09-Sep-24	Monday	Physical spectroscopy	Vibrational Class 3	1. Diatomic molecule 2. Selection rule for polyatomic molecules	49
10-Sep-24	Tuesday	Physical spectroscopy	Vibrational Class 4	1. Calculation of rotational constant 2. Effect of nuclear spin	19

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11-Sep-24	Wednesday	Physical spectroscopy	Raman Class 1	1. Rayleigh, Stoke's and Anti-stoke's line 2. Examples	54
12-Sep-24	Thursday	Physical spectroscopy	Raman Class 2	1. Rotational Raman spectroscopy 2. Examples	56
13-Sep-24	Friday	Physical spectroscopy	Raman Class 3	1. Vibrational Raman spectroscopy 2. Rule of mutual exclusion	21
14-Sep-24	Saturday	Physical spectroscopy	Rotational Assignment and Solution	21 questions	21
15-Sep-24	Sunday	Holiday			
16-Sep-24	Monday	Physical spectroscopy	Vibrational Assignment and Solution	34 questions	45
17-Sep-24	Tuesday	Physical spectroscopy	Raman Assignment and Solution	13 questions	68
18-Sep-24	Wednesday	Physical spectroscopy	Miscellaneous Assignment and Solution	12 questions	16
19-Sep-24	Thursday	Physical spectroscopy	Exam Dose		
20-Sep-24	Friday	Physical spectroscopy	Miscellaneous Assignment 2 and Solution Molecular Spectroscopy Test on Monday		
21-Sep-24	Saturday	Physical spectroscopy	Revise Molecular Spectroscopy		
22-Sep-24	Sunday	Holiday			
23-Sep-24	Monday	Physical spectroscopy	Chapterwise Test and Solution	20 questions	35
24-Sep-24	Tuesday	Quantum	Revise Quantum Chemistry		
25-Sep-24	Wednesday	Statistical Thermodynamics	Class 1	1. Third law of thermodynamics 2. Distribution of molecules	67
26-Sep-24	Thursday	Statistical Thermodynamics	Class 2	1. Occupation number 2. Examples	64
27-Sep-24	Friday	Statistical Thermodynamics	Class 3	1. Ensemble 2. Partiton function and its properties	65
28-Sep-24	Saturday	Statistical Thermodynamics	Class 4	1. Translational partiton function 2. Rotational partition function	59
29-Sep-24	Sunday	Holiday			
30-Sep-24	Monday	Statistical Thermodynamics	Class 5	1. Vibrational partition function 2. Electronic partition function	53

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01-Oct-24	Tuesday	Statistical Thermodynamics	Class 6	1.Calculation of thermodynamic properties 2. Sackur-Tetrode equation	44
02-Oct-24	Wednesday	Holiday	Gandhi Jayanti		
03-Oct-24	Thursday	Statistical Thermodynamics	Assignment 1 and solution	20 questions	40
04-Oct-24	Friday	Statistical Thermodynamics	Assignment 2 and solution	25 questions	77
05-Oct-24	Saturday	Statistical Thermodynamics	Miscellaneous Assignment and Solution		
06-Oct-24	Sunday	Holiday			
07-Oct-24	Monday	Statistical Thermodynamics	Thermodynamics Test on Wednesday		
08-Oct-24	Tuesday	Statistical Thermodynamics	Revise Thermodynamics		
09-Oct-24	Wednesday	Statistical Thermodynamics	Thermodynamics Test and Solution	20 questions	34
10-Oct-24	Thursday	Physical spectroscopy	Revise Molecular Spectroscopy		
11-Oct-24	Friday	Gate New Topics	Diffusion Controlled Reactions		
12-Oct-24	Saturday	Gate New Topics	Saddle Point+Potential energy surface		
13-Oct-24	Sunday	Holiday			
14-Oct-24	Monday	Gate New Topics	Saddle Points		
15-Oct-24	Tuesday	Gate New Topics	Henry's Law		
16-Oct-24	Wednesday	Gate New Topics	Raoult's Law		
17-Oct-24	Thursday	Gate New Topics	Line Broadening		
18-Oct-24	Friday	Gate New Topics	Hybridisation (Group Theory) SALCs (Group Theory)		
19-Oct-24	Saturday	Revision Assignments	Revision Assignments		